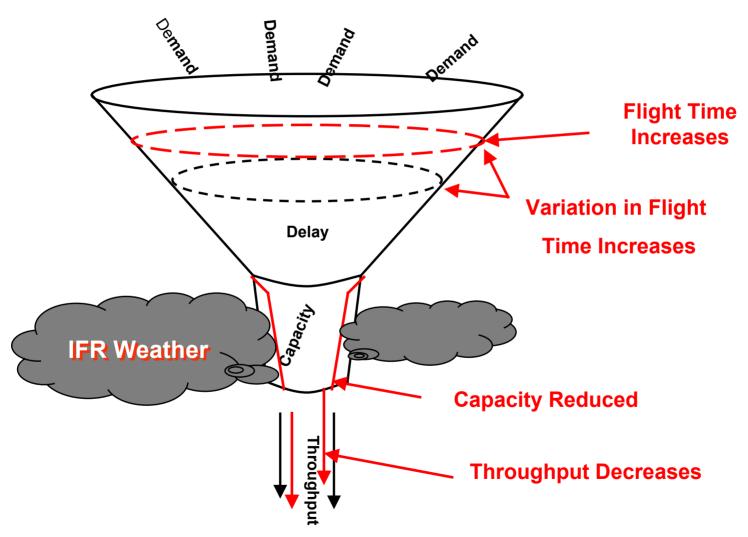


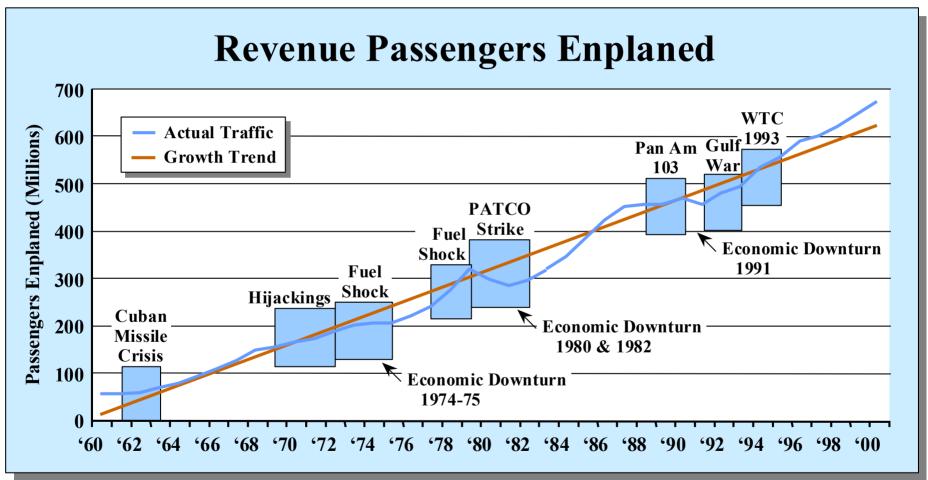
These Measures Interact - IFR Weather Example





Economics as an External Driver Air Travel Trend 1960-2000





Source: Landrum & Brown, as reported in "Embattled Airlines Gird For Business Unusual", *Aviation Week & Space Technology*, November 19, 2001, pp 48-51.

Air Traffic Today



- ➤ Eight months after 9/11, air traffic is rebounding, but airlines are flying fewer passengers than they were 1 year ago.
- > Traffic across the NAS is currently down about 7-8% and is progressively increasing.
- > Operations are rebounding more rapidly in the mid-west

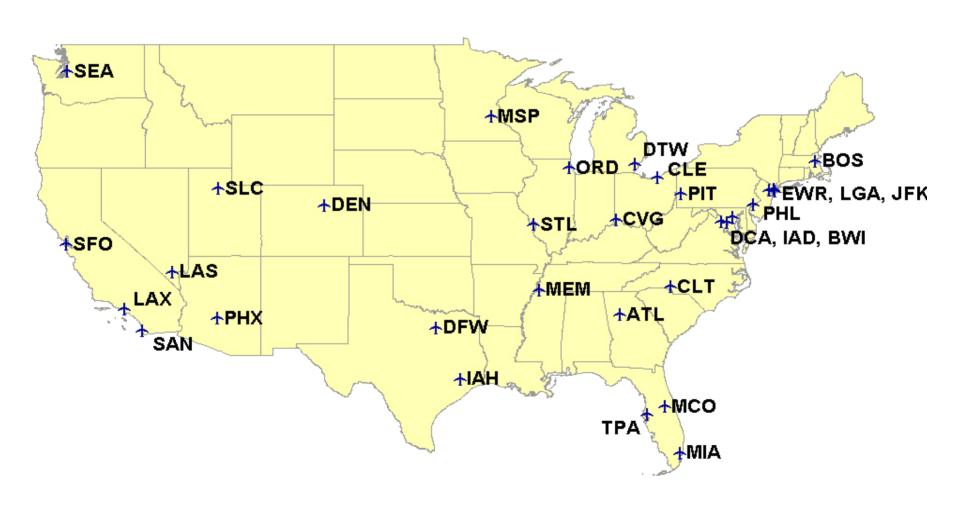
> Traffic this summer is expected to be close to 2001 levels, however passenger volume will remain lower.

➤ Airlines have increased their use of smaller aircraft, including regional jets. Increased regional jet activity may pose new challenges to the NAS that the FAA and industry must work collaboratively to manage.



31+1 Benchmark Airports





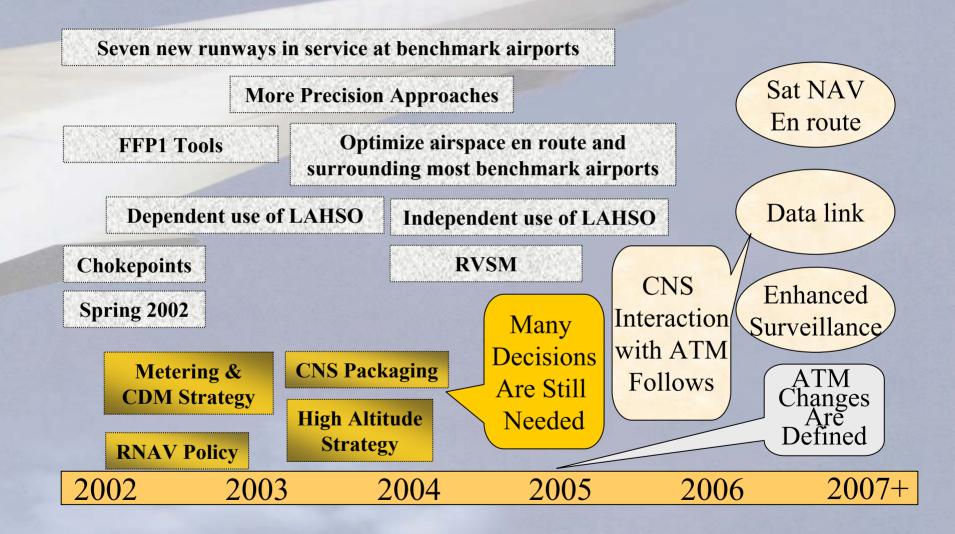
OEP Solutions





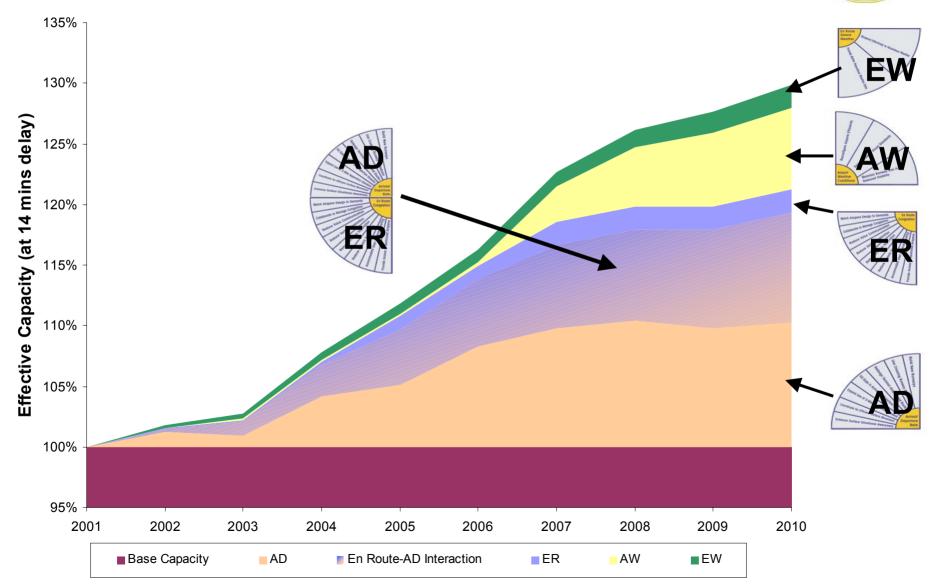


NAS Operational Evolution At A Glance



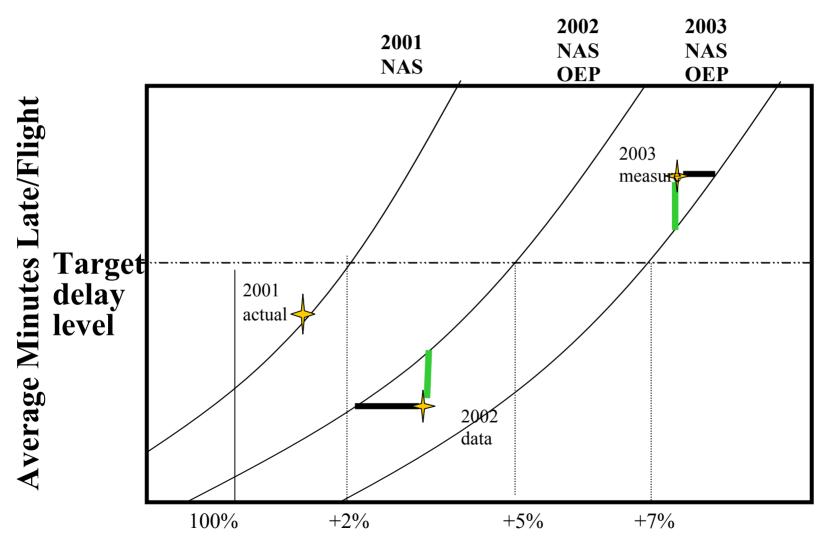
System Wide Growth In Capacity at 14 Minutes of Delay Per Flight





Measuring Effective Capacity Comparison of Actuals to Projections





Volume compared to 2000

OEP Primary Offices of Delivery



Redesign terminal Mishade and Routes Expand Use of 3 Mile Separation Standard Coordinate for Efficient Surface Movement Departure Enhance Surface Situational Awareness Rate	Airport Weather Conditions Reduced Visibility Reduced Visibility
Match Airspace Design to Demands Congestion Congestion Reduce Voice Communication Reduce Voice Communication	En Route Severe Weather Respond Effectively to Hazardous Weather Provide Better Hazardous Weather

Roy Grimes and Howard Swancy (for Nick Sabatini)	ER4 AD2
Mike Cirillo	AW1/2 ER5/6/8
Paul Galis	AD1
Sabra Kaulia	AD3/5 ER1
John Thornton	AD4 ER3/7
John Staples	AW3
John White (for Jack Kies)	ER2 EW1/2
Wilson Felder (for Bill Voss)	AD6/7

OEP Primary Offices of Delivery



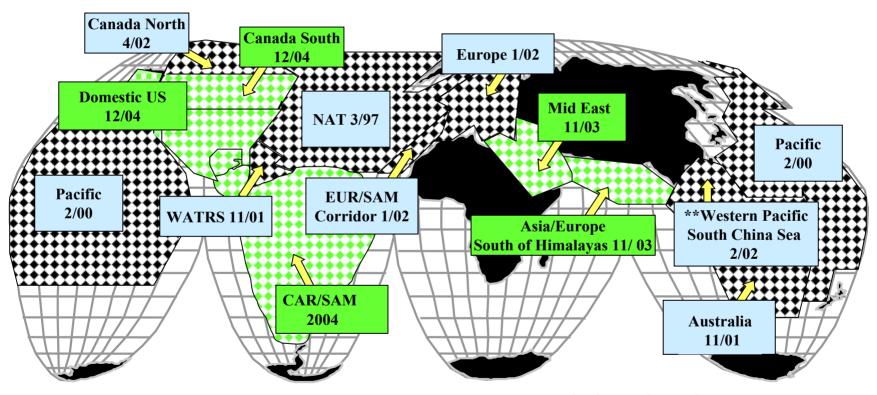


Roy ER4
Grimes
for
Nick Sabatini



RVSM Implemented & Planned







** Western Pacific/South China Sea

February 2002 Implementation Bangkok, Ho Chi Minh, Kota Kinabalu, Kuala Lumpur, Manila, Phnom Penh, Sanya, Singapore, Taipei

October 2002 Implementation Hanoi, Hong Kong, Jakarta, Ujung Pandang, Vientiane



Program Development



- Dialogs/discussions begun in Fall 2000
- Industry meetings in Feb and May 2001
- Priority project in NAS Operational Evolution Plan (Paragraph ER-4)
- Notice of Proposed Rulemaking to be published next week with 90 day comment period



Proposed/Planned Objectives



- Implement RVSM between FL 290 410 in contiguous 48 states, Alaska and Gulf of Mexico airspace---where FAA provides air traffic services
- Implement in December 2004
- FAA coordinating with Mexico, Canada and Central/South America



Benefits 2004 - 2018



- Fuel Savings Benefits 2004 2018:
 - **□** \$5.8 billion
 - □ 9/1 benefit/cost ratio
 - □ \$371 m. first year savings---1.5% annual increase
- Enhanced ATM flexibility
- Enhanced sector throughput
- Reduced controller workload/potential for error
- Reduction in conflict points
- Enhanced enroute capacity



Program Elements/Costs 2002 - 2016



- \$634 million costs:
 - RVSM aircraft engineering
 - □ Pilot and, if applicable, dispatch program revision
 - Monitoring/assessment of aircraft altitude-keeping performance
 - Air traffic system modification and controller training



Projected DRVSM Operations



- ➢ By 12/2004, project 90-94% of flights to be conducted by RVSM approved aircraft
- > Civil aircraft not RVSM approved may:
 - ☐ Operate at/below FL 280
 - ☐ If capable, operate at/above FL 430, traffic permitting



Conclusion



FAA committed to successful RVSM implementation in the National Airspace System

